

Alaska Scientific Crime Detection Laboratory

Change in Instrument Status Form

Issued: 12/15/2017
Effective: 12/15/2017

Version: CIISF 2017 R0
Status: Active

Date: 03/09/2020 Instrument Serial Number: 100411

Instrument Location: Officer's Room Hall NPPD

Supervisor Name and Agency: Jed Smith NPPD 7569

Describe the Status Change or Issue with the Instrument:

If instrument was placed in service or removed from service, fill out the appropriate sections below.

In Service Date/Time: 03/09/2020 1726^{***}

Out of Service Date/Time: _____

***Instrument was not actually placed in service due to not having a passing VOC. Refer to attached troubleshooting information and out of service form. DJW 03/26/2020

For Use by SCDL

Additional Notes

Email completed form to dps.scdl.toxicology@alaska.gov

For questions contact the Breath Alcohol Program at 907-269-5740

Walton, Derek J (DPS)

From: Jed Smith <JSmith@northpolepolice.org>
Sent: Monday, March 09, 2020 6:52 PM
To: Walton, Derek J (DPS); Phil McBroom
Subject: Re: Replacement DMT shipped

Follow Up Flag: Follow up
Flag Status: Flagged

Hello,

When I attempted to initiate a VOC the new machine made a nasty scraping noise inside and said "filter wheel error" it then failed the diagnostic check. I tried again with the same result. I'm putting our old machine back in service for now. Also the threads on the new machine appear to be damaged, it was very difficult to install the tank.

Please advise,

Thanks



Sergeant Jed Smith
NPPD Patrol Division
North Pole Police Department
125 Snowman Lane
North Pole, Alaska 99705
Office: 907-488-6902
Desk: 907-488-8173

From: Walton, Derek J (DPS) <derek.walton@alaska.gov>
Sent: Friday, March 6, 2020 10:37:45 AM
To: Phil McBroom; Jed Smith
Subject: Replacement DMT shipped

A replacement DMT is being shipped to you via Lynden Transport. The Lynden reference number is 6701256-7. Please complete the Change in Instrument status forms for both instruments and return to the lab.

Thank you for your time and consideration.

Derek Walton
Forensic Scientist III

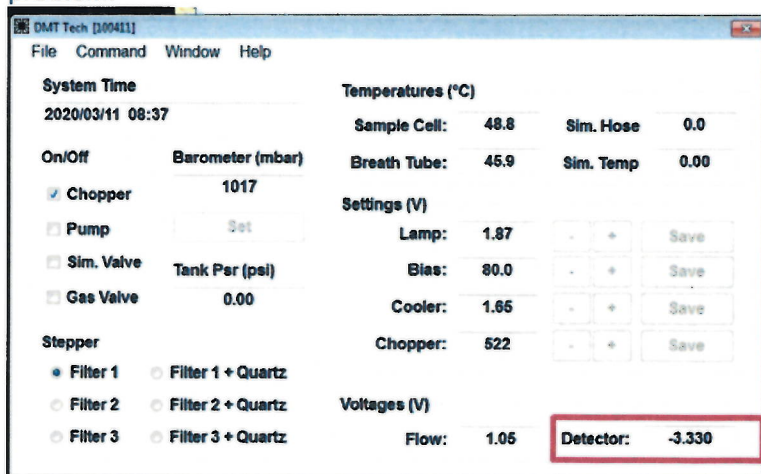
Walton, Derek J (DPS)

From: DPS SCDL Toxicology (DPS sponsored)
Sent: Wednesday, March 11, 2020 9:26 AM
To: Jed Smith
Cc: Phil McBroom
Subject: RE: Change in Status Forms

Thanks for getting it hooked up! We were able to communicate with 100411 (the new one) and so at least we know your modem line works properly. Hooray!

Colleen looked at the new one in interactive mode and the detector voltage is way outside of normal. Please perform the following steps. I can also talk someone through this on the phone during day shift.

1. Restart the DMT, go into Technician mode (password: sup) and write down the detector voltage. The voltage should be between negative 0.100 and positive 0.100. See image below. It's negative 3.330 here which is a problem.



2. Exit Technician mode, shut the instrument off at the switch and unplug it from power.
3. Open the top lid by removing the 4 Phillips head screws.
4. Look at the green controller board mounted on the underside of the lid. There are a variety of wired connections. Make sure none of the connections are loose or unplugged by gently pushing down on the connectors.
5. Look at the black and gold filter wheel assembly on the left inside corner of the instrument. Press down firmly on the vertical black wheel and pull forward gently to spin the filter wheel. There will be some resistance but it should spin. If it does not spin at all, check the locking pin on top of the filter wheel assembly. There is a narrow metal bar that snaps into place to lock the filter wheel. If this is engaged and preventing the filter wheel from spinning, gently pull up on it to allow the filter wheel to spin.
6. Replace the top cover and screws, plug the instrument back in, and power it up.
7. Document what you did on a change in instrument status form.

I'll look at it when I get in to check on that detector voltage again. As long as it's plugged into the modem line, I should be able to see the values and run some tests remotely.

Derek J. Walton

Forensic Scientist III – Chemistry
Technical Lead – Seized Drugs
State of Alaska Scientific Crime Detection Laboratory

Phone: (907) 269-5628

From: Jed Smith [<mailto:JSmith@northpolepolice.org>]
Sent: Tuesday, March 10, 2020 5:29 PM
To: DPS SCDL Toxicology (DPS sponsored)
Cc: Phil McBroom
Subject: Re: Change in Status Forms

It's plugged in and turned on. No tank installed at the moment (its in the other DMT)



Sergeant Jed Smith
NPPD Patrol Division
North Pole Police Department
125 Snowman Lane
North Pole, Alaska 99705
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Desk: 907-488-8173

From: DPS SCDL Toxicology (DPS sponsored) <dps.scdl.toxicology@alaska.gov>
Sent: Tuesday, March 10, 2020 4:37:22 AM
To: Jed Smith
Cc: Phil McBroom
Subject: RE: Change in Status Forms

Will you please connect 100411 to your modem line to see if that instrument will upload? That will also allow me to look at the tests that you ran on that instrument to diagnose what's going on. 100348 isn't uploading anyway so there's no point in it being plugged into the modem line.

For reference, all instruments going out into the field go through a rigorous certification process including:

- Checking of mechanical components and voltages
- Verification of volume measurement capability
- Linearity testing using multiple dry gas tanks and simulator solutions
- Testing of ability to trigger status messages
- Touch screen calibration
- VOC
- Breath tests
- Modem functionality

It is very unusual to have an instrument have problems right away after being certified. The best thing to do would be to go through some troubleshooting with the new instrument.

We appreciate your patience and understanding.

Derek J. Walton

Forensic Scientist III – Chemistry
Technical Lead – Seized Drugs
State of Alaska Scientific Crime Detection Laboratory
Phone: (907) 269-5628

From: Jed Smith [<mailto:JSmith@northpolepolice.org>]
Sent: Tuesday, March 10, 2020 12:16 AM
To: DPS SCDL Toxicology (DPS sponsored)
Cc: Phil McBroom
Subject: Re: Change in Status Forms



Sergeant Jed Smith
NPPD Patrol Division
North Pole Police Department
125 Snowman Lane
North Pole, Alaska 99705
Office: 907-488-6902
Desk: 907-488-8173

From: Jed Smith
Sent: Monday, March 9, 2020 1:54:29 PM
To: dps.scdl.toxicology@alaska.gov
Cc: Phil McBroom
Subject: Change in Status Forms

Here are the change in status forms for our new machine.

Thanks



Sergeant Jed Smith
NPPD Patrol Division
North Pole Police Department
125 Snowman Lane
North Pole, Alaska 99705
Office: 907-488-6902
Desk: 907-488-8173

Alaska Scientific Crime Detection Laboratory

Change in Instrument Status Form

Issued: 12/15/2017
Effective: 12/15/2017

Version: CIISF 2017 R0
Status: Active

Date: 03/11/2020 Instrument Serial Number: 100411

Instrument Location: Officers Room Hall NPPD

Supervisor Name and Agency: Jed Smith 7569 NPPD

Describe the Status Change or Issue with the Instrument:

Checked DMT detector voltages using technician mode, opened top cover and checked electrical connections on circuit board.

Checked filter wheel.

Noted a detector voltage of -3.330.

Noted that the filter wheel has one spot where it appears to hang up without the locking pin engaged.

The wheel can still spin but it encounters resistance at one point during the rotation.

If instrument was placed in service or removed from service, fill out the appropriate sections below.

In Service Date/Time: _____

Out of Service Date/Time: 03/11/2020 1529 ***

*** Instrument was not actually placed in service at North Pole PD on 03/09/2020 due to not having a passing VOC. Instrument was returned to the laboratory. DJW 03/26/2020

For Use by SCDL

Additional Notes

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Effective: 12/15/2017

Version: CIISF 2017 R0
Status: Active

Date: 100411 Instrument Serial Number: 100411

Instrument Location: North Pole PD

Supervisor Name and Agency: Derck Walton - SCDL with Jed Smith - North Pole PD

Describe the Status Change or Issue with the Instrument:

Attempted to put instrument in service on 03/09/2020 @ 1726; however,
a filter wheel error occurred right away. Cermetix box was removed
from 100411 on 03/11/2020 and installed into 100348 (previously
not communicating with lab. Refer to additional troubleshooting performed on
100411 on attached Change in Instrument Status Form.

If instrument was placed in service or removed from service, fill out the appropriate sections below.

In Service Date/Time: NA

Out of Service Date/Time: NA

For Use by SCDL

Additional Notes

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For questions contact the Breath Alcohol Program at 907-269-5740